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SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
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(54) Title: TREATMENT FOR DRY EYE SYNDROME

(57) Abstract: A novel formulation for the treatment of the many underlying inflammatory processes that cause dry eye syndrome. In particular, the formulation, which is orally administered includes the optimal blend of omega-3 and omega-6 essential fatty acids, and nutrient cofactors necessary to enhance the metabolic conversion associated with the tear-specific series E-one anti-inflammatory prostaglandin (PGE1). As used herein, the term "nutrient cofactor" refers to a compound that supports and enhances the conversion of linoleic acid to gamma-linolenic acid. Additionally, the formulation inhibits the production of pro-inflammatory compounds, as well as the growth of viral and bacterial pathogens of the three-layer tear film.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/22297

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 35/60, 33/32, 33/06, 31/20, 31/07, 47/00  
US CL : 424/523, 697, 643; 514/558, 912, 915, 725, 777

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 424/523, 697, 643; 514/558, 912, 915, 725, 777

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
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## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| Y, P       | US 6,506,412 B2 (TROYER et al.) 14 January 2003 (14.01.2003), entire document.     | 1-20                  |
| Y, P       | US 2002/0128191 A1 (SCANNON) 12 September 2002, entire document.                   | 1-20                  |
| Y, P       | US 6,537,581 B2 (TAO) 25 March 2003 (25.03.2003), entire document.                 | 1-20                  |
| Y, P       | US 6,585,987 B1 (FRANSONI) 01 July 2003 (01.07.2003), entire document.             | 1-20                  |
| Y          | US 6,093,706 A (ZELIGS) 25 July 2000 (26.07.2000), entire document.                | 1-20                  |

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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**INTERNATIONAL SEARCH REPORT**

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**Continuation of B. FIELDS SEARCHED Item 3:**

WEST, DIALOG, MEDLINE, BIOSIS, EMBASE

Dry eye syndrome, omega fatty acid, linolenic acid, lactoferrin, mucin, vitamin ?, curcumin, currant seed, DHEA, inventors